# RESIDENTIAL RADON MEASUREMENT REPORT TOBIQUE FIRST NATION

Prepared for:

Tobique First Nation Tobique, NB

Prepared by:

ARC Geobac Group inc. 380 Smythe Street Fredericton, NB E3B 3E4

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## RESIDENTIAL RADON MEASUREMENT REPORT TOBIQUE FIRST NATION

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#### 1.0 INTRODUCTION

Following the Health Canada test of 6 public buildings on the Tobique Reserve, and the results which indicated that 5 of these buildings demonstrated radon levels above the acceptable limit of 200 Becquerels per cubic metre (Bq/m³), a survey of existing houses on Reserve was initiated. This work took place over the period March 23<sup>rd</sup> to April 6<sup>th</sup>, 2011. The survey took place during what was considered to be winter conditions, where buildings were essentially closed and heated in a normal manner.

Given the sensitivity of residents on the Reserve to the Health Canada test results, and the anxiety that it raised regarding radon levels in private homes, it was decided that undertaking full scale 90 day tests during the fall of 2011 (the most appropriate time to conduct these tests) was too long a period to wait to allay the anxiety of local residents. It was therefore decided to use the 2 day residential test (EPA protocol) as a screening tool to identify: 1) houses where radon levels were potentially higher than acceptable limits; 2) houses where radon levels were close to the acceptable limit; and, 3) houses where radon levels were below the acceptable limit. As this study was conducted as a screening exercise, it was later decided that houses which indicated radon levels between 150-350 Bq/m³ would be retested using a 90 day period to confirm the presence or absence of radon above or below recommended levels.

#### 2.0 TESTING PROTOCOL

Each house was visited and two E-Perms systems were placed 10 cm apart in the lowest lived in level of the building and to meet placement standards of 0.6 m above floor; 0.6 m below ceiling and 1 m from openings and 10 cm from any object. The E-Perm systems were placed 10 cm apart and opened by three Reserve residents trained in proper placement of these systems. Each system was left for a minimum of two days open to the air in the house. Systems were then closed and collected by the same Natives that installed them. All E-Perms were packaged, and shipped to Fredericton for analysis.

During the placement of each set of E-Perms at each location, the E-Perm serial numbers were noted together with the time, location (address) and date of placement. Similarly, when each set of E-Perms was collected, the closure date and times were also noted. The name of the person in the house at the time of sampling and allowing access to the building was also noted on the placement log. It is understood that not all of the people present in the houses for the sampling were owners of houses but some were either renting and/or relatives of those who did own the building.

While the occupant/resident of each house was informed that the E-Perm should be placed at the lowest lived in level, a number of residents insisted that the E-Perm systems be placed in the room that they spent the most time in, notably the kitchen and/or living room. Due to the likely traffic through these areas, and the

potential for abnormal flushing or dilution of air due to door openings, the radon level in the lower levels of the house could be somewhat higher than recorded. These houses/locations are noted against the results in **Appendix A**.

In addition, at one location, one E-Perm was moved to the basement while at the other, one was placed on the main floor by the resident. At another location, we were told the children moved the E-Perms. These locations are also noted in the **Appendix**.

Houses could not be left to equilibrate before testing, as all houses were occupied and experienced typical resident activities. No house tested used external air exchange systems and typical heating systems were left functioning. No severe storms were noted during the testing periods.

#### 3.0 RESULTS

Each set of E-Perms were tested using a Rad Elec Electronic Voltage Reader SPER-1E. The analysis of the E-Perms indicated that of the 350 homes tested, 183 registered radon levels above 200 Bq/m³ over the two day testing period. Of these, 142 homes registered radon levels between 200 - 600 Bq/m³, and 41 homes registered radon levels above the 600 Bq/m³ criteria. A full list of the addresses of the buildings tested is provided in **Appendix A**, together with the radon levels noted for that particular building. Also provided in a separate column is the name of the people occupying the houses at the time of testing.

#### 4.0 DISCUSSION

The high percentage of residential homes on the Reserve that appear to have radon levels in excess of the 200 B/m³ recommended level, indicates that the source of the radon gas is distributed widely across the Reserve land occupied by housing. The majority of Reserve housing is constructed on the outwash sands and gravels, near the Saint John River. This area is a former floodplain and as such is flat with little elevation change between the northern end of the Reserve land adjacent to the river and the southern extremity at the confluence of the Saint John and Tobique Rivers. The remainder of Reserve housing lies to the east and south along the upland area of the Reserve and along Routes 105 and 390.

The expected source of the radon is likely uranium present in the high percentage of granitic rocks in the outwash sands and gravels. This source has some validity based upon radon levels taken from three shallow boreholes constructed into these soils to depths of 1.2 m. Gases from each of the three boreholes gave short term radon readings of  $> 1,000 \text{ Bg/m}^3$ .

The presence of such high radon levels in the soils does not necessarily mean that radon in houses will be high. Radon needs entry points and a driving force to enter the buildings. Radon entry points will be any opening in the basement walls and/or floors such as unsealed dirt floors (i.e. crawl spaces); sump pits; openings for pipes; cracks; cold joints; etc. The negative pressures created by movement of air upwards and out of buildings, when for instance windows or

doors are opened; air exchange systems start or heating systems operate is the force which pulls the radon into the house.

The variability of the radon levels in homes tested indicated that the presence of openings allowing radon into the homes house plays a significant part in the radon levels found. Homes of similar structure and age and located side by side often gave significantly different radon levels.

The higher radon levels (>600 to 3,762.7 Bq/m³) found in some of the homes tested, indicates the presence of significant entry points for these homes and a relatively high negative pressure differential causing the radon to enter. Some of these higher radon levels may also be due to greater concentrations of radon in the soils found locally around these homes.

It is cautioned that while the screening testing undertaken over a two day period is indicative of radon presence, in cases where the radon levels (150 to 300 Bq/m3) are close to the 200 Bq/m³ recommended limit, the presence of radon greater than 200 Bq/m³ should be verified using a longer 90 day test period. This is especially so as a number of homes were tested on the main level rather than in the lowest lived in level.

With regards to the two day screen test undertaken in Reserve houses and where radon levels are greater than 350 Bg/m³, it is unlikely that a longer term test will

show levels to be lower than 200 Bq/m³, given that the two day test was conducted in March, when winter conditions were prevalent.

Health Canada recommends that where radon levels are >600 Bq/m³ that the building be mitigated within a one year time frame. If radon levels are recorded between 200-600 Bq/m³ a two mitigation time frame is recommended.

#### 5.0 CONCLUSIONS

Based upon the results of the study and other data, it is concluded that:

- 1. A large number of homes on the Reserve are impacted by radon levels at or above the recommended level of 200 Bq/m³;
- Radon is present naturally in the soils and/or bedrock beneath the Reserve; and
- 3. New building construction should take the presence of radon in the soils into account when initiating and designing structures.

#### 6.0 RECOMMENDATIONS

From the study results, it is possible to provide several recommendations for consideration by Chief and Council. These are:

- 1. Mitigation should commence as soon as possible for homes (15) where radon was found to be greater than 1,000 Bq/m³.
- 2. Consideration should then be given to mitigating homes (26) where radon levels were found to be greater than 600 Bq/m³.
- 3. Homes with radon levels from 350-600 Bq/m³ should then be prioritized for mitigation to remove radon.
- 4. Homes with radon levels from the two day test found to be between 150 and 350 Bq/m³ should be tested over a 90 day period.

## RESIDENTIAL RADON MEASUREMENT REPORT TOBIQUE FIRST NATION

Appendix A

Residences Tested and Results

31		39 Main Street		<mark>302.4</mark>
113		52 Main Street		54.0
138		61 Main Street		3.4
53		70 Main Street		<mark>407.6</mark>
86		73 Main Street		<mark>297.6</mark>
91		82 Main Street		29.7
94		92 Main Street		45.7
6		107 Main Street		85.8
66		115 Main Street		110.9
SFV543/SFV507		120 Main Street	April 4-6	3.0
113		121 Main Street	·	144.1
163		127 Main Street		<mark>297.1</mark>
164		127 Main Street		39.7 *
157		130 Main Street		150.3
140		131 Main Street		155.6 *
77		134 Main Street		92.2
132		142 Main Street		162.0
129		153 Main Street		99.9 *
170		163 Main Street		158.8
125		166 Main Street		76.5
SFV543/SFV507		166 Main Street (RCMP)	April 1-3	169.3
165		190 Main Street		<mark>283.2</mark>
176		196 Main Street		<mark>258.9</mark>
112		196 Main Street		<mark>526.0</mark>
24		19A Main Street		12.0
36		19B Main Street		75.0
13		201 Main Street		95.3
142		210 Main Street		142.2 *
* Placed on main floo	or, not lowest lived in level	200-600 Bq/m <sup>3</sup>		>600 Bq/m <sup>3</sup>

16		211 Main Street		<mark>353.6</mark>	
200		212 Main Street		<mark>368.2</mark>	
42		213 Main Street		128.4	
189		220 Main Street		<mark>214.9</mark> *	
199		220 Main Street		<mark>343.9</mark>	
191		223 Main Street		145.3	
SFV616/SFV581		225 Main Street	Apr-11	650.0	
112		229 Main Street		131.9 *	
179		230 Main Street		<mark>260.9</mark>	
185		231 Main Street		<mark>199.1</mark>	
101		231 Main Street		<mark>514.8</mark> *	
55		236 Main Street		126.4	
192		254 Main Street		153.6	
127		258 Main Street		113.9 *	
38		269 Main Street		189.4	
143		279 Main Street		57.4	
145		285 Main Street		614.5	
151		288 Main Street		<mark>259.6</mark>	
158		291 Main Street		<mark>222.3</mark>	
22		292 Main Street		182.1	
167		296 Main Street		145.6 *	
106		329 Main Street		55.5 *	
40		363 Main Street		100.5	
129		369 Main Street		<mark>437.2</mark> *	
117		370 Main Street		107.2 *	
11		375 Main Street, Apt. 3		47.9	
25		376 Main Street		69.4 *	
30		379 Main Street		120.1	
19		382 Main Street		3666.0	
137		387 Main Street		890.3	
* Placed on main floor, not lowest lived in level					

15		390 Main Street	962.8
113		393 Main Street	3 <mark>26.1</mark> *
6		396 Main Street	1786.6
121		399 Main Street	531.6 *
13		400 Main Street	<mark>415.0</mark>
3		403 Main Street	19.7
22		404 Main Street	114.3
17		408 Main Street	153.0
130		411 Main Street	<mark>448.9</mark> *
47		412 Main Street	171.6
110		413 Main Street	653.5 *
27		414 Main Street	<mark>238.4</mark>
2		418 Main Street	113.0
20		420 Main Street	<mark>231.9</mark>
45		422 Main Street	198.7
125		423 Main Street	633.8 *
134		424 Main Street	<mark>283.1</mark>
102	<u></u>	425 Main Street	31.7 *
32		426 Main Street	891.0
25		426 Main Street	751.7
109		427 Main Street	<mark>247.5</mark> *
12		428 Main Street	<mark>333.6</mark>
9		429 Main Street	933.5
43		430 Main Street	1086.3
124		433 Main Street	669.2 *
31		434 Main Street	<mark>395.1</mark>
103		435 Main Street	49.8 *
120		437 Main Street	<mark>422.0</mark> *
34		438 Main Street	1066.0
aced on m	ain floor not lowest lived in lev	ما	

<sup>\*</sup> Placed on main floor, not lowest lived in level



<sup>\*</sup> Placed on main floor, not lowest lived in level

439 Main Street	72.5
440 Main Street	1008.7
441 Main Street	<mark>274.8</mark>
444 Main Street	<mark>370.5</mark>
446 Main Street	969.6
Main Street	55.0
Main Street (John Tividen)	125.5

### **First Street**

Bag #	Name	Address	Bq/m³
174		6 First Street	3.1
184		11 First Street	<mark>395.9</mark>
64		12 First Street	148.1
173		15 First Street	1105.4
180		15 First Street	167.8
147		16 1st Street	329.1

		Second Street	
Bag #	Name	Address	Bq/m³
143		6 Second Street	<mark>306.6</mark>
154		9 Second Street	189.2
131		10 Second Street	<mark>203.6</mark> *
51		15 Second Street	<mark>261.1</mark> *
142		16 Second Street	92.2
148		19 Second Street	<mark>552.5</mark>
33		20 Second Street	93.3
190		24 Second Street	164.4
187		25 Second Street	167.2
193		28 Second Street	<mark>226.3</mark>
21		29 Second Street	132.0
143		33 Second Street	3.5
142		38 Second Street	<mark>417.6</mark>
10		59 Second Street	<mark>221.7</mark>
101		75 Second Street	<mark>204.5</mark> *
47		78 Second Street	<mark>298.8</mark>
50		82 Second Street	69.3
114		85 Second Street	71.9 <b>*</b>
118		86 Second Street	<mark>225.9</mark> *
111		87 Second Street	<mark>581.7</mark>
34		92 Second Street	<mark>234.4</mark>
14		95 2nd Street	857.3
31		97 Second Street	192.4

<sup>\*</sup> Placed on main floor, not lowest lived in level

#### **Third Street**

Bag #	Name	Address	Bq/m³
144		4 Third Street	<mark>263.0</mark>
103		14 Third Street	32.1
150		15 Third Street	33.9 *
133		21 Third Street	<mark>355.9</mark> *
156		26 Third Street	109.4
136		27 Third Street	137.3 *
46		30 Third Street	127.4
138		31 Third Street	164.0 *
132		35 Third Street	615.9 *
41		38 Third Street	100.5
160		39 Third Street	76.7
149		42 Third Street	123.0
153		43 Third Street	189.4

#### **Fourth street**

		<u>rourtii street</u>	
Bag #	Name	Address	Bq/m³
135		2 Fourth Street	<mark>346.8</mark> *
140		5 Fourth Street	182.0
11		11 Fourth Street	145.4
139		14 Fourth Street	164.4
21		15 Fourth Street, Apt. 2	87.3
141		20 Fourth Street	<mark>474.1</mark>
134		24 Fourth Street	<mark>344.3</mark> *
42		27 Fourth Street	141.3
52		29 Fourth Street	134.3
137		30 Fourth Street	<mark>568.8</mark>
52		36 Fourth Street	<mark>420.9</mark>
9		39 Fourth Street	138.3

<sup>\*</sup> Placed on main floor, not lowest lived in level

### **Fifth Street**

Bag #	Name	Address	Bq/m³
120		4th Fifth Street	<mark>348.9</mark>
44		6 Fifth Street	<mark>238.7</mark>
2		7 Fifth Street	<mark>490.1</mark>
29		11 Fifth Street	<mark>301.3</mark>
106		14 Fifth Street	135.9
35		18 Fifth Street	179.3
3		20 Fifth Street	<mark>383.0</mark>
23		21 Fifth Street	<mark>424.5</mark>
33		29 Fifth Street	<mark>265.2</mark>

## **Sixth Street**

Bag #	Name	Address	Bq/m³
23		6 Six Street	904.6
122		5 Six Street	930.2
126		4 Six Street	1793.4

<sup>\*</sup> Placed on main floor, not lowest lived in level

### **New Road**

Bag #	Name	Address	Bq/m³
79		4 New Road	80.3
89		20 New Road	<mark>266.0</mark>
60		29 New Road	177.2
95		30 New Road	114.8
85		34 New Road	194.6
92		43 New Road	83.1
58		49 New Road	<mark>474.0</mark>
81		50 New Road	<mark>229.0</mark>
58		56 New Road	<mark>481.9</mark>
59		59 New Road	<mark>275.4</mark>
55		60 New Road	715.6
66	r	63 New Road	<mark>296.1</mark>
56		64 New Road	817.0
67		67 New Road	957.9
63		72 New Road	648.2
61		75 New Road	<mark>494.4</mark>
62		76 New Road	<mark>224.9</mark>
57		79 New Road	<mark>262.5</mark>
99		84 New Road	109.8
100		88 New Road	167.8
72		93 New Road	61.1
90	У	96 New Road	<mark>531.1</mark>
69		100 New Road	162.6
98		101 New Road	47.4
123		104 New Road	<mark>333</mark>

## **Loop Road**

Bag #	Name	Address	Bq/m³	
56		3 Loop Road	127.1	
70		9 Loop Road	<mark>258.1</mark>	
84		12 Loop Road	<mark>253</mark>	
78		15 Loop Road	121.5	
111		16 Loop Road	<mark>297.8</mark>	
75		19 Loop Road	654.2	
75		22 Loop Road	8.0	
76		23 Loop Road	7.9	
96		26 Loop Road	79.1	
88		30 Loop Road	<mark>338.5</mark>	
83		33 Loop Road	193.8	
99		37 Loop Road	<mark>244.8</mark>	
105		38 Loop Road	<mark>381.4</mark>	
57		40 Loop Road	<mark>243.0</mark>	
96		41 Loop Road	<mark>247.1</mark>	
136		47 Loop Road	165.2	
1		52 Loop Road	<mark>275.4</mark>	
74		64 Loop Road	181.4	
71		67 Loop Road	181.4	
67		68 Loop Road	72.7	
46		80 Loop Road	<mark>318.1</mark>	
89		75 Loop Road	75.0	
65		83 Loop Road	<mark>209.6</mark>	
98		87 Loop Road	<mark>413.9</mark>	
87		91 Loop Road	<mark>314.4</mark>	
121		92 Loop Road	73.0 *	* Placed on main
100		Loop Road (Jeff and Jennifer)	172.8	floor, not lowest
81		100 Loop Road	47.8	lived in level
70		105 Loop Road	<mark>228.6</mark>	
122		108 Loop Road	188.4 *	
85		Loop Road	21.2	

#### **Resevoir Road**

Bag #	Name	
51		1
65		1
53		1
12		1
68		1
60		1 2 2 2 2 3 3 3 3
82		2
64		2
54		2
139		2
73		3
80		3
97		3
88		3
76		3
93		4
77		4

Address	Bq/m³
10 Resevoir Road	<mark>415.1</mark>
14 Resevoir Road	<mark>230.1</mark>
15 Resevoir Road	73.8
16 Resevoir Road	16.9
19 Resevoir Road	187.1
20 Resevoir Road	110.9
24 Resevoir Road	<mark>572.2</mark>
25 Resevoir Road	<mark>397.3</mark>
26 Resevoir Road	<mark>358</mark> Moved E-Perms
29 Resevoir Road	25.9
30 Resevoir Road	90.8
33 Resevoir Road	<mark>337.5</mark>
34 Resevoir Road	<mark>266.6</mark>
38 Resevoir Road	<mark>316.6</mark>
39 Resevoir Road	<mark>529.0</mark>
41 Resevoir Road	132.6
42 Resevoir Road	92.1

### **Bear Lane**

Bag #			Name		
	161				
	162				
	169				
	30				
		_	 		

\* Placed on main floor, not lowest lived in level

Address	Bq/m³
15 Bear Lane	136.3
7 Bear Lane	39.5
3 Bear Lane	66.0
21 Bear Lane	<mark>252.2</mark>

## Radon Analysis - Tobique First Nation LAGOON ROAD

Bag #	Name	Address	Bq/m³
108		8 Lagoon Road	134.8 *
104		11 Lagoon Road	<mark>300.5</mark> *
112		12 Lagoon Road	326.1 *
26		15 Lagoon Road	1085
127		16 Lagoon Road	<mark>454.9</mark>
52		16 Lagoon Road	<mark>358.4</mark> *
38		19 Lagoon Road	715.4
119		20 Lagoon Road	93.1 *
43		25 Lagoon Road	<mark>504</mark>
8		36 Lagoon Road	1292.2
28		40 Lagoon Road	<mark>258.8</mark>
107		4 Lagoon Road	57.6
109		46 Lagoon Road	6.9
49		50 Lagoon Road	1748.2
7		58 Lagoon Road	1307.0
45		64 Lagoon Road	<mark>406.8</mark>
35		68 Lagoon Road, Apt. 7	<mark>320.6</mark>
4		68 Lagoon Road, Apt. 1	637.0
39		68 Lagoon Road, Apt. 4	<mark>463.8</mark>
117		68 Lagoon Road, Apt. 6	<mark>218.5</mark>
5		76 Lagoon Road, Apt. 1	<mark>416.0</mark>
1		76 Lagoon Road, Apt. 4	29.1
18		76 Lagoon Road, Apt. 2	2041.8
49		78 Lagoon Road	<mark>281.4</mark>

<sup>\*</sup> Placed on main floor, not lowest lived in level

#### **Route 105**

Bag #	Name	Address		Bq/m³
36		12838 Route 105		75.3
44		12838 Route 105		163.1
145		12838 Route 105		76.5
149		12840 Route 105		17.5 *
14		12844 Route 105		11.7
50		12854 Route 105		176.9
27		12854 Unit 1 (Route 105?)		88.7
150		12895 Route 105		153.7
107		12899 Route 105		68.3
123		13068 Route 105		62.6 *
118		13086 Route 105		156.4 *
10		13125 Route 105		55.4
59		13156 Route 105		52.9
115		13156 Route 105		113.5
119		13195 Route 105		<mark>290.6</mark> *
99		13244 Route 105		30.4
SFV559/SFV677		13266 Rte 105	April 4-11	93.5
62		13272 Route 105		<mark>522.3</mark>
37		13311 Rte 105		867.3
7		13539 Route 105		<mark>249.6</mark>
110		Route 105 - Joe Russell		<mark>362.5</mark>
18		Sterling Perley, Rte 105		<mark>363.3</mark>

<sup>\*</sup> Placed on main floor, not lowest lived in level

### Route 390

Bag #	Name	Address	Bq/m³
111		50 Route 390	59.2
SFV616/SFV581		257 Rte 390 April	1-3 <mark>325.3</mark>
24		272 Route 390	23.5
133		282 Route 390	16.6
122		290 Route 390	77.5 '
124		296 Route 390	162.4
144		301 Route 390	195.1 '
147		309 Route 390	967.0
20		325 Route 390	3762.7
141		348 Route 390	601.1
116		357 Route 390	89.1
100		375 Route 390	2029.3

<sup>\*</sup> Placed on main floor, not lowest lived in level

## **Perley Road**

Bag #	Name	Address	Bq/m³
188 194 28 46 14		12 Perley Road 6 Perley Station 1 Perley Road 4 Perley Road 4 Perley Road	66.2 * 263.5 * 160.9 318.1 239.8
		Lerwick Road	
Bag #	Name	Address	Bq/m³
4 5 108		17 Lerwick Road 45 Lerwick Road 151 Lerwick Road	<mark>577.5</mark> 26.9 59.3
		Larley Road	
Bag # 17 48 102	Name	Address 231 Larlee Road 226 Larlee Road 230 Larlee Road	Bq/m³ <mark>656.4</mark> 52.3 <mark>390.4</mark>

<sup>\*</sup> Placed on main floor, not lowest lived in level

## **Nicholas Road**

Bag #	Name
126	
104	
26	
29	

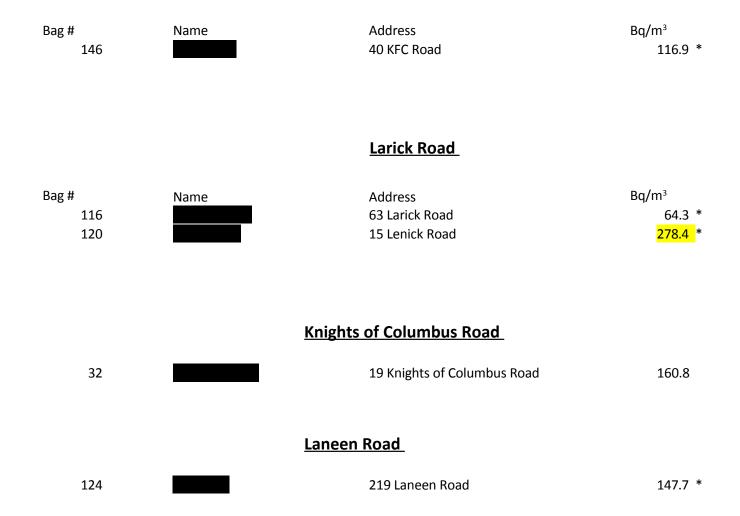
Address	Bq/m³
20 Nicholas Road	94.2
36 Nicholas Road	<mark>251.6</mark>
59 Nicholas Road	60.0
59 Nicholas Road, Unit I	53.8

## **River Road**

Bag #	Name	Address	Bq/m³
SFV559/SFV677		5 River Road	<mark>278.5</mark>
168		9 River Road	<mark>216.9</mark>
197		12 River Road	156.9
198		32 River Road	76.0
183		38 River Road	<mark>267.2</mark> *
181		56 River Road	105.3
77		60 River Road	48.0
141		68 River Road	<mark>273.6</mark> *
177		69 River Road	<mark>367.9</mark>
131		69-B River Road	<mark>230.3</mark>
178		73 River Road	<mark>300.5</mark> *
171		76 River Road	<mark>198.8</mark>
182		77 River Road	86.4
175		80 River Road	44.8 *
159		85 River Road	<mark>200.6</mark>
148		86 River Road	649.4 *
172		90 River Road	<mark>276.3</mark> *
117		91 River Road	137.7
186		River Road (Bridgette Moulton)	<mark>212.9</mark>

<sup>\*</sup> Placed on main floor, not lowest lived in level





<sup>\*</sup> Placed on main floor, not lowest lived in level

#### **Band Office Road**

Bag # Name		Address	Bq/m³	
196		5 Band Office Road	<mark>391.5</mark>	
155		4 Band Office Road	96.2	
195		9 Band Office Road	93.3 *	
152		14 Band Office Road	<mark>255.4</mark>	
166		15 Band Office Road	87.5	

<sup>\*</sup> Placed on main floor, not lowest lived in level

## **No Address**

Bag #	Name
116	
146	
37	
40	
72	
92	
135	
SFV559/SFV677	
15	

Address		Bq/m³
		<mark>372.2</mark>
Sarah Bear		<mark>484.1</mark>
Apt. 1 - Theresa Francis		32.4
Tailor #3		24.9
Stella Nicholas		52.5
319		<mark>545.5</mark>
Suzanne Sappier		127.1
Ramona Nicholas	April 1-3	133.0
		128.2